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41 [DoS and authentication in wireless public access networks](#)



Daniel B. Faria, David R. Cheriton

 September 2002 **Proceedings of the 3rd ACM workshop on Wireless security WiSE '02**

Publisher: ACM Press

 Full text available: pdf(272.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As WEP has been shown to be vulnerable to multiple attacks, a huge effort has been placed on specifying an access control mechanism to be used in wireless installations. However, properties of the wireless environment have been exploited to perform multiple DoS attacks against current solutions, such as 802.11/802.1X. In this paper we discuss the main wireless idiosyncrasies and the need for taking them into account when designing an access control mechanism that can be used in both wireless and ...

Keywords: DoS, security, wireless networks

42 [Exploiting path diversity in mobile systems: Divert: fine-grained path selection for wireless LANs](#)



Allen Miu, Godfrey Tan, Hari Balakrishnan, John Apostolopoulos

 June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

 Full text available: pdf(913.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The performance of Wireless Local Area Networks (WLANs) often suffers from link-layer frame losses caused by noise, interference, multipath, attenuation, and user mobility. We observe that frame losses often occur in bursts and that three of the five main causes of frame losses -- multipath, attenuation, mobility -- depends on the transmission path traversed between an access point (AP) and a client station. In a typical WLAN deployment, different transmission paths to a client exist in places where ...

Keywords: 802.11, mobile systems, path diversity, wireless LAN

43 [Communication and devices: HAIL: a language for easy and correct device access](#)



Jun Sun, Wanghong Yuan, Mahesh Kallahalla, Nayeem Islam

 September 2005 **Proceedings of the 5th ACM international conference on Embedded**

software EMSOFT '05**Publisher:** ACM PressFull text available:  [pdf\(477.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is difficult to write device drivers. One factor is that writing low-level code for accessing devices and manipulating their registers is tedious and error-prone. For many system-on-chip based systems, buggy hardware, imprecise documentation, and code reuse worsen the situation further. This paper presents *HAIL (Hardware Access Interface Language)*, a language-based approach to simplify device access programming and generate error checking code against bugs in software, hardware, and do ...

Keywords: automatic code generation, device drivers, domain-specific languages, embedded systems, invariant specification and verification, register access, software reuse, system-on-chip

44 We Talk to Everybody 

Marjorie Richardson, Jason Schumaker, David Penn
June 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.Full text available:  [html\(96.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A quick look at some of the people who helped make Linux possible.

45 Wireless home networks: Design and implementation of the HiperLan/2 protocol 

E. P. Vasilakopoulou, G. E. Karastergios, G. D. Papadopoulos
April 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7
Issue 2

Publisher: ACM PressFull text available:  [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In recent years, wireless communication systems have experienced an enormous development, leading to the emergence of various wireless networks standards. These standards are characterized by different properties, such as their coverage, data rates, mobility and QoS support. Among them the HiperLan/2 standard is distinguished of its performance, supporting the provision of high-speed integrated services. Its centralized Medium Access Control protocol though is the most critical and complex funct ...

46 A wireless public access infrastructure for supporting mobile context-aware IPv6 applications 

Adrian Friday, Maomao Wu, Stefan Schmid, Joe Finney, Keith Cheverst, Nigel Davies
July 2001 **Proceedings of the first workshop on Wireless mobile internet**

Publisher: ACM PressFull text available:  [pdf\(768.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a novel wireless access point architecture designed to support the development of next generation mobile context-aware applications over metropolitan scale areas. In addition, once deployed, this network will allow ordinary citizens secure, accountable and convenient access to the Internet from their local city and campus environments.

The proposed architecture is based on an approach utilising a modified Mobile IPv6 protocol stack that uses packet marking ...

Keywords: authentication, mobile IPv6, public access point, security, wireless internet

47 Service infrastructure and network management: MobiDesk: mobile virtual desktop computing



Ricardo A. Baratto, Shaya Potter, Gong Su, Jason Nieh

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(580.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present MobiDesk, a mobile virtual desktop computing hosting infrastructure that leverages continued improvements in network speed, cost, and ubiquity to address the complexity, cost, and mobility limitations of today's personal computing infrastructure. MobiDesk transparently virtualizes a user's computing session by abstracting underlying system resources in three key areas: display, operating system, and network. It provides a thin virtualization layer that decouples a user's computing ses ...

Keywords: computer utility, network mobility, on-demand computing, process migration, thin-client computing, virtualization

48 Technical session 7: multimedia systems: Implementation and evaluation of EXT3NS multimedia file system



Baik-Song Ahn, Sung-Hoon Sohn, Chei-Yol Kim, Gyu-Il Cha, Yun-Cheol Baek, Sung-In Jung, Myung-Joon Kim

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(524.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The EXT3NS is a scalable file system designed to handle video streaming workload in large-scale on-demand streaming services. It is based on a special H/W device, called Network-Storage card (NS card), which aims at accelerating streaming operation by shortening the data path from storage device to network interface. The design objective of EXT3NS is to minimize the delay and the delay variance of I/O request in the sequential workload on NS card. Metadata structure, file organization, metadata ...

Keywords: file system, multimedia, streaming, video server

49 Kernel korner: Linux socket filter: sniffing bytes over the network

Patrick Th. Eugster

June 2001 **Linux Journal**, Volume 2001 Issue 86

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(20.04 KB) Additional Information: [full citation](#), [index terms](#)

50 LIHP: A Low Latency Layer-3 Handoff Scheme for 802.11 Wireless Networks

John C. Lin, Sampath Rangarajan Rangarajan

June 2006 **Proceedings of the 2006 International Symposium on on World of Wireless, Mobile and Multimedia Networks WOWMOM '06**

Publisher: IEEE Computer Society

Additional Information: [full citation](#), [abstract](#)

This paper presents the design and implementation of a low latency layer-3 handoff scheme for 802.11 wireless mobiles roaming between Access Points that are connected to different IP subnets. Called LIHP (Link-layer Initiated Handoff Protocol), the scheme uses link-layer frames (e.g., ARP and 802.11 management frames) as triggers to send route

updates to the mobiles and to an Access Gateway, which serves as the gateway to the Internet for the mobiles. This approach allows for IP packet routing t ...

51 Design and implementation of a software bridge with packet filtering and statistics collection functions

A. Khan, N. Al-Darwish, M. Guizani, M. Benten, H. Youssef

September 1997 **International Journal of Network Management**, Volume 7 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(255.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article starts with the formulation of the complete design problem. Possible design strategies are then identified and adopted along with the reasons for adoption. Finally, the article describes the implementation of the proposed bridge. © 1997 John Wiley & Sons, Ltd.

52 Operating systems for sensor networks: A dynamic operating system for sensor nodes

Chih-Chieh Han, Ram Kumar, Roy Shea, Eddie Kohler, Mani Srivastava

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available:  [pdf\(418.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)


Sensor network nodes exhibit characteristics of both embedded systems and general-purpose systems. They must use little energy and be robust to environmental conditions, while also providing common services that make it easy to write applications. In TinyOS, the current state of the art in sensor node operating systems, reusable components implement common services, but each node runs a single statically-linked system image, making it hard to run multiple applications or incrementally update app ...

53 Using problem analysis to support decisions and planning in complex processes

Chris Hallgren

February 1997 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(939.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper presents theoretical and practical arguments for a new direction in task-based, computer documentation. It argues that common tasks that we document for users have grown in complexity to include many stages where decisions affect the outcome. The term "complex problem" is used to describe this scenario, in that users struggle to understand the obstacles to completion of a task, and the criteria for success at each stage. The design of information for "complex problems" is seen as need ...

54 Notes on constructing a parallel computing platform

Jodie Kok, Elizabeth Elzinga, Greg Wolffe

October 2001 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 1

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(42.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Parallel computing is an interesting and important topic that spans several different areas of the computer science curriculum, such as networking, architecture and programming. With the proliferation of open-source software and the availability of inexpensive computer components, it has now become feasible for small colleges and non-research institutions to create parallel computing platforms. In this article we describe the construction of a dedicated computing cluster and the educational bene ...

55 Configuring ATM Networks


Wayne J. Salamon

February 1999 **Linux Journal****Publisher:** Specialized Systems Consultants, Inc.Full text available:  [html\(23.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



This article describes how to configure Linux-based PCs and an asynchronous transfer mode (ATM) switch to build on ATM network

56 Buy One, Get One Free: Configuring Linux as a dual-purpose user environment

R. Scott Gray, Luke Pargiter, Phil Pfeiffer

November 1999 **Linux Journal****Publisher:** Specialized Systems Consultants, Inc.Full text available:  [html\(29.66 KB\)](#) Additional Information: [full citation](#), [index terms](#)**57** Wireless networking security: Security problems in 802.11-based networks

Russ Housley, William Arbaugh

May 2003 **Communications of the ACM**, Volume 46 Issue 5**Publisher:** ACM PressFull text available:  [pdf\(90.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 [html\(20.14 KB\)](#)

Assessing inherent wireless network security deficiencies and seeking solutions.

58 Link synchronous mobile IPv4 handover algorithms

James Kempf, Ajay Singh, Jonathan Wood, Atsushi Takeshita, Nat Natarajan

May 2006 **Wireless Networks**, Volume 12 Issue 3**Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The performance of the base Mobile IP handover algorithm for moving the Mobile Node's network layer point of attachment from one subnet to another has been recognized as a potential performance bottleneck for some time. In this paper, we discuss a collection of algorithms that use a link synchronous approach to Mobile IP handover. In the link synchronous approach, information on the progress of switching the link is used to drive handover at the IP level. We present a comprehensive analysis of h ...

Keywords: 802.11, IS-2000, fast handover, handover performance, mobile IPv4

59 Best student paper candidates: Improving loss resilience with multi-radio diversity in wireless networks

Allen Miu, Hari Balakrishnan, Can Emre Koksul

August 2005 **Proceedings of the 11th annual international conference on Mobile computing and networking MobiCom '05****Publisher:** ACM PressFull text available:  [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the Multi-Radio Diversity (MRD) wireless system, which uses path diversity to improve loss resilience in wireless local area networks (WLANs). MRD coordinates wireless receptions among multiple radios to improve loss resilience in the face of path-dependent frame corruption over the radio. MRD incorporates two techniques to recover from bit errors and lower the loss rates observed by higher layers, without consuming much extra bandwidth. The first technique is frame combining ...

Keywords: bit-error, frame combining, packet combining, path diversity, performance, wireless LAN, wireless networks

60 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems



Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: [pdf\(7.24 MB\)](#) Additional Information: [full citation](#), [citations](#)



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